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Hormones control the functions and development of many organs and cells
Examples of hormones that control the menstrual cycle.

FSH Oestrogen LH

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Name the site of production of these hormones

FSH _____ Pituitary gland _____

OESTROGEN _____ ovary/ovaries _____

LH _____ Pituitary gland _____

[3 marks]

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How do hormones travel to their target organs?

_____ in the blood _____ [1 mark]

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The hormones LH works with FSH and oestrogen to coordinate the menstrual cycle. Describe how the hormones FSH, oestrogen and LH are involved in the control of the menstrual cycle.

FSH matures the egg [1]; also stimulates oestrogen production [1]; oestrogen helps to build up the lining of the womb/uterus [1]; also inhibits FSH production/ stimulates LH production [1] LH stimulates ovulation/egg release [1] [4 marks]

The table below shows some data about women who have undergone IVF treatment at a certain clinic.

	Age of women			
	Under 35	35 - 37	38 - 39	40 +
No. of women treated	400	200	106	53
No. of single births	90	45	17	1
No. of twins	25	10	4	1

Compare the success of single births between women **under 35** and women aged **35 to 37**.

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the success is the same [1]; correct use of figures for under 35 e.g. 90/400 [1] correct use of figures for 35-37 e.g. 45/200 [1] or any calculation that shows 90/400 is basically the same proportion as 45/200

[3 marks]

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What percentage of women aged 35 - 37 had twins?

_____ 10/200 [1] _____

_____ **Answer 5% [2] [2 marks]**

DON'T FORGET:
As with most calculations on science papers, full marks for the correct answer with no working but always show your working as you can get credit without getting the answer correct

A woman will be infertile if her body does not release enough follicle stimulating hormone (FSH).

Explain how injections of FSH could increase the chances of having a baby

FSH stimulates maturing of eggs [1]; so they can be released for fertilisation [1]

or the eggs can be collected for IVF [1]; also stimulates production of oestrogen

[1] _____

_____ **[3 marks]**

